PTO/SB/21 (02-04) Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid QMB control number. **Application Number** 10/047,728 **TRANSMITTAL** Filing Date January 15, 2002 **FORM** First Named Inventor Terry R. Bussear Art Unit (to be used for all correspondence after initial filing) 2837 **Examiner Name** Renata D. McCloud Attorney Docket Number 284-15718-USCE Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC ~ (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Change of Correspondence Address Affidavits/declaration(s) Other Enclosure(s) (please Terminal Disclaimer **Extension of Time Request** Identify below): 1. Return Postcard Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Response to Missing Parts/ Incomplete Application Account No. 02-0429-US (284-15718-USCE). Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Shawn Hunter, Reg. No. 36,168 Individual name Signature Date March 31, 2004 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Gretchen King Date March 31 2004 Signature

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## IN THE UNITED STATES PATERY AND TRADEMARK OFFICE

In re Application of:

McCloud, R. Examiner:

Serial No.:

Art Unit:

2837

Filed:

For:

tion of:

Bussear et al.

10/047,728

01/15/02

Apparatus and Methods for §

**Using a Surface-Based** Oscillator as a Downhole

**Seismic Source** 

Attorney Docket No.: 284-15718-USCE

MS: Non-fee Amendment Commissioner for Patents

P.O. Box 1450

Alexandria, VA. 22313-1450

## **RESPONSE TO OFFICE ACTION** MAILED MARCH 11, 2004

Sir:

In response to the office action mailed March 11, 2004, please consider the following response:

Remarks/Arguments begin on page 2 of this paper.